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| Notice of Allowability | Application No. | Applicant(s) | |
| | 09/829,772 | HAGLID, KLAS C. | |
| | Examiner | Art Unit | |
| | John K. Ford | 3753 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to approval given Sept 26, 2005 to make changes to the claims
by Examiner's Audit.
2. ☒ The allowed claim(s) is/are 23, 24, 26-30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
 Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Note: the formal drawings received 6/18/2002 are approved.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment which places this application in condition for allowance. During a telephone conversation conducted on September 26, 2005, Mr. Neff requested an extension of time for 2 MONTH(S) and authorized the Director to charge Deposit Account No. 50-0540 the required fee of \$225.00 (small entity) for this extension and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In the claims:

Claim 23 (currently amended)

A heat exchanger comprising in combination,

a plurality of panels of thermoplastic material having dispersed air-filled cavities, each of said panels having two opposed broad surfaces and at least one edge, each of said broad surfaces having a greater surface area than said edge,

selected ones of said panels having at least one indentation in at least one of said broad surfaces, said indentation forming a gas flow passage cavity,

others of said panels each having at least one gas flow conduit structure forming at least one gas flow conduit,

said selected ones of said panels being interleaved with said others of said panels in a predetermined sequence,

said panels being assembled with said broad surfaces of said panels joined together so that said gas flow passage cavity in each of said selected panels forms a gas flow passageway with one of said broad surfaces of an adjoining one of said other panels,

said gas flow passageways in said selected panels and said gas flow conduits in said other panels are positioned to conduct gases in substantially opposite directions over a substantial portion of their lengths,

said heat exchanger having a housing with at least one solid integral side wall formed by said edges of said panels being aligned with one another and fused together over a substantial portion of their lengths.

Claims 25 and 31 have been cancelled.

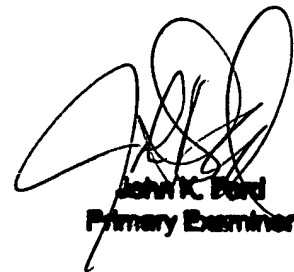
The following is an examiner's statement of reasons for allowance:

By Examiner's amendment, a recitation has been added as a new penultimate paragraph that states that the gas flow passageways in said selected

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panels and said gas flow conduits in said other panels are positioned to conduct gases in substantially opposite directions over a substantial portion of their lengths (unlike all of the prior art applied in the final office action, except EP 0044561). The claim as amended above is deemed to define over the art (including EP '561 in combination with Hartig), because Hartig doesn't fairly teach forming a housing with at least one integral side wall formed by fusing the edges of the panels over a substantial portion of their lengths in a heat exchanger such as shown in Figure 10 of EP '561.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."



John K. Ford
Primary Examiner